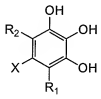
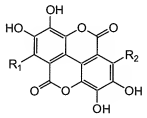
Listing of Claims:

1. (Currently amended) A method of treating Alzheimer's disease, in a mammal suffering there from, comprising administration to the mammal of a therapeutically effective amount of an isolated pure compound selected from the group consisting of the compounds of formula A, formula B, and formula D:



Formula A

Formula B



Formula D

where:

R_1 and R_2 are independently selected from hydrogen, halogen, $C_{1\text{-}6}$ alkyl and $C_{1\text{-}6}$ alkoxy;

X is selected from hydrogen and the group consisting of

(a) hydroxy, amino, $C_{1\text{-}6}$ alkylamino, di($C_{1\text{-}6}$ alkyl)amino, and cycloamino,

(b) $C_{1\text{-}22}$ alkyl, $C_{1\text{-}22}$ alkoxy, $C_{1\text{-}22}$ alkylthio, and $C_{1\text{-}22}$ alkylcarboxyl, each optionally substituted with 1 to 5 moieties selected from the group consisting of halogen, hydroxy, mercapto, amino, nitro, $C_{1\text{-}6}$ alkoxy, $C_{1\text{-}6}$ alkylthio, and $C_{1\text{-}6}$ alkylcarboxyl,

(c) aromatic and heteroaromatic groups substituted with 3 adjacent hydroxy groups, and optionally substituted with 1 to 5 substituents selected from halogen, $C_{1\text{-}6}$ alkyl and $C_{1\text{-}6}$ alkoxy, each optionally substituted with up to 5 halogen atoms,

(d) sugars, optionally substituted with one or more anionic groups selected from sulfate, phosphate, phosphonate, carboxylate, and sulfonate groups, and

(e) peptides and

~~Y is hydrogen, hydroxy, $C_{1\text{-}6}$ alkoxy, benzyloxy, where the phenyl group is optionally substituted with 1 to 3 substituents selected from halo and $C_{1\text{-}6}$ alkyl, or $-OSO_2R_4$, where R_4 is $C_{1\text{-}6}$ alkyl or phenyl optionally substituted with 1 to 3 substituents selected from halo and $C_{1\text{-}6}$ alkyl;~~

~~and the group of compounds consisting of acacetin, actinorhodine, alizarin, alizarin blue, alizarin orange, alizarinsulfonic acid, alkannin, anthragallol, anthralin, anthrarobin, antharufin, apigenin,~~

~~apigetrin, apiose, baicalein, baptigenin, 1,2,4-benzenetriol, bostrycoidin, carbidopa, carminic acid, carubicin, cellobiose, centaurein, chloranilic acid, chondrosine, chromotrope 2B, chromotropic acid, chrysamminic acid, chrysarobin, chrysin, chrysophanic acid, cichoriin, citrazinic acid, citromycetin, collinomycin, curvularin, cyanidin, cyanidin 3-glucoside, cyanidin 3-rhamnoglucoside, cyanidin 3,5-diglucoside, cyanidin 3-sophoroside, daphnetin, datiscetin, daunorubicin, delphinidin, deoxyepinephrine, diosmetin, diosmin, dioxethedrine, dopa, dopamine, doxorubicin, droxidopa, echinochrome A, embelin, emodin, ergoflavin, eriodictyol, esculetin, fenoldopam, fomecin A, fomecin B, fraxetin, fraxin, fredericamycin A, fumigatin, fusarubin, fuscin, fustin, galangin, gallein, gallocyanine, gardenin A, gardenin B, gardenin C, gardenin D, gardenin E, gentisin, granaticin, guamecycline, hematein, hydroxysophorobioside, hydroxysophoricoside, icariin, isoquercitrin, kermesic acid, laccaic acid A, laccaic acid B, laccaic acid C, laccaic acid D, leucocyanidin, luteolin, maclurin, menogaril, methylenedigallic acid, morin, oosporein, phenicin, phloroglucide, puberulic acid, puberulonic acid, purpurin, purpurogallin, quercetagetin, quercimritrin, quinalizarin, quinic acid, resistomycin, rhamnetin, rhein, rhodizonic acid, rhodomycin A, rhodomycin B, robinin, ruberythric acid, rufigallol, rutin, scutellarein, tannic acid, tetroquinone, tiron, troxerutin, and tunichrome B1,~~ but excluding pyrogallol, and

the pharmaceutically acceptable salts thereof.

2. (Previously presented) The method of Claim 1 where only one active ingredient compound is administered.

3. (Previously presented) The method of Claim 1 where the mammal is a human.

4-16. (Canceled).

17. (Previously presented) The method of Claim 1 where R_1 and R_2 are independently selected from the group consisting of hydrogen; C_{1-6} alkyl, C_{1-6} alkoxy, and C_{1-6} alkylthio, in each of which the alkyl group is optionally substituted with 1 to 5 halogen atoms; and halo.

18. (Previously presented) The method of Claim 1 where X is selected from hydrogen and the group consisting of

(a) hydroxy, amino, C_{1-6} alkylamino, di(C_{1-6} alkyl)amino, and cycloamino,

(b) C_{1-22} alkyl, C_{1-22} alkoxy, C_{1-22} alkylthio, and C_{1-22} alkylcarboxyl, each optionally substituted with 1 to 5 moieties selected from the group consisting of halogen, hydroxy, mercapto, amino, nitro, C_{1-6} alkoxy, C_{1-6} alkylthio, and C_{1-6} alkylcarboxyl, and

(c) aromatic and heteroaromatic groups substituted with 3 adjacent hydroxy groups, and optionally substituted with 1 to 5 substituents selected from halogen, C_{1-6} alkyl and C_{1-6} alkoxy, each optionally substituted with up to 5 halogen atoms.

19. (Previously presented) The method of Claim 1 where X is selected from hydrogen and the group consisting of hydroxyl and amino.

20. (Canceled)

21. (Previously presented) The method of Claim 1 where the compound is a compound of formula A or formula B, or a pharmaceutically acceptable salt thereof.

22-24. (Canceled)

25. (Previously presented) The method of Claim 1 where the compound is a compound of formula D or a pharmaceutically acceptable salt thereof.

26. (Canceled)

27-28. (Canceled)

29. (Canceled)

30. (Canceled)